

Radarange

MICROWAVE OVEN

Record in space below the Model No., Manufacturing (MFG) No. and Serial No. recorded on the nameplate of your oven. The nameplate is located either on the back of the oven or underneath the oven near the right front foot.

Model No. RRL-97C

MFG No. _____

Serial No. _____

Date Installed _____

Selling Dealer _____

Retain these numbers and your Sales Receipt for proof of purchase should warranty questions arise. Your Sales Receipt is required should warranty service be needed. Complete the registration card, which is included with the packet that comes with the oven. This must be filled out and returned to Amana Refrigeration, Inc., Amana, Iowa 52204. Federal regulations require that all manufacturers of microwave ovens have a permanent record of the owners of each oven.

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Installation and Safety Instructions Checking Oven Operation

IMPORTANT SAFETY INSTRUCTIONS

When using electrical appliances, basic safety precautions should be followed, including the following:

WARNING — To reduce the risk of burns, electric shock, fire, injury to persons or exposure to excessive microwave energy:

1. Read all instructions before using the appliance.
2. Read and follow the specific "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY" found on page 4.
3. This appliance must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on page 3.
4. Install or locate this appliance only in accordance with the provided installation instructions.
5. Some products such as whole eggs and sealed containers — for example, closed glass jars — may explode and should not be heated in this oven.
6. Use this appliance only for its intended use as described in this manual.
7. As with any appliance, close supervision is necessary when used by children.
8. Do not operate this appliance if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
9. This appliance should be serviced only by qualified service personnel. Contact nearest authorized service facility for examination, repair or adjustment.
10. Do not cover or block any openings on the appliance.
11. Do not use outdoors.
12. Do not immerse cord or plug in water.
13. Keep cord away from heated surfaces.
14. Do not let cord hang over edge of table or counter.
15. See door cleaning instructions on page 41.
16. To reduce the risk of fire in the cavity:
 - a. Do not overcook food. Carefully attend appliance if paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
 - b. Remove wire twist-ties from paper or plastic bags before placing bag in oven.
 - c. If materials inside the oven should ignite, keep oven door closed, turn oven off, and disconnect the power cord, or shut off power at the fuse or circuit breaker panel.

SAVE THESE INSTRUCTIONS

UNPACKING THE OVEN

Inspect the oven for any damage such as damaged gasketing around the door, dents or holes in the screen of the door or dents inside the oven cavity.

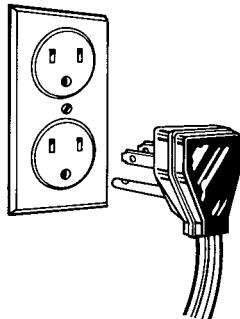
Any dents or breakage should be reported to your Amana Dealer immediately. Your Amana Dealer will tell you if the unit will operate correctly.

After removing packing material and literature from around the glass oven tray, place tray in oven. Do not operate oven without glass tray in place.

OVEN PLACEMENT

Do not build the oven in with the sides, top or bottom air flow restricted. The oven must have sufficient air flow around it. If you wish to build in the Radarange Oven, an optional (at extra cost) built-in kit can be ordered through your Amana dealer.

GROUNDING INSTRUCTIONS



Insure proper ground exists before using.

This appliance must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This appliance is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded. Do not use a two-prong adaptor.

WARNING — Improper use of the grounding plug can result in a risk of electric shock.

Consult a qualified electrician or serviceman if the grounding instructions are not completely understood, or if doubt exists as to whether the appliance is properly grounded.

If it is necessary to use an extension cord, use only a 3-wire extension cord that has a 3-blade grounding plug, and a 3-slot receptacle that will accept the plug on the appliance. The extension cord must be rated at a minimum of 15 amps, 120 volts, and should be no more than six feet in length. This oven should be plugged into a separate 120 volt, 15 amp, 60 cycle circuit. When a microwave oven is on a circuit with other appliances, cooking times can be increased and fuses can be blown.

Safety Instructions

Read and follow these Rules for Safe Operation

The Amana Radarange Oven is designed to be **safe** and **reliable**. As with all appliances, there are certain rules to follow. Make sure everyone who cooks is familiar with this product's operation and with these precautions.

1. PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not attempt to operate this oven with the door open since open-door operation can result in harmful exposure to microwave energy. It is important not to defeat or tamper with the safety interlocks.
- (b) Do not place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on sealing surfaces.
- (c) Do not operate the oven if it is damaged. It is particularly important that the oven door close properly and that there is no damage to the: (a) Door (bent), (b) hinges and latches (broken or loosened), (c) door seals and sealing surfaces.
- (d) The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

2. Precautions

- (a) Always press the  pad before programming the oven.
- (b) **WARNING:** Liquids must be briskly stirred or poured (to mix in air) before being heated in a microwave oven. If air is not mixed into a liquid, the liquid can erupt in the oven or after removal from the oven.
- (c) **Eggs** must not be cooked or reheated in the shell, or with an unbroken yolk. To do so may result in a pressure build-up and eruption. Pierce the yolk with a fork or knife before cooking.
Do not reheat previously cooked eggs in the microwave oven unless finely chopped or scrambled.

- (d) **Home canning** must not be done in a microwave oven. Home canning is generally done with metal lids. Since metal lids reflect microwaves, you cannot be assured that the food product will be heated uniformly to 212°F or above, and there is a probability of deterioration of the food product. USDA extension specialists do not recommend home canning in microwave ovens.
- (e) **Deep fat frying** must not be done in any microwave oven. The fat could overheat and be hazardous to handle.
- (f) **WARNING: Do not heat sealed containers in any microwave oven. Containers with restricted openings** such as syrup bottles must not be used for cooking. Food or liquid could expand quickly and cause the container to break.
- (g) **Regular cooking thermometers** must not be used in the Radarange Oven. Most cooking thermometers contain mercury and may cause "arcing", malfunction, and/or damage to the oven.
- (h) **Plastic bags (and other air-tight containers)** must always be pierced or opened before heating in a microwave oven. This is needed to allow steam to escape during cooking.
- (i) **Metal or ceramic accessories** which have a special design to absorb microwave energy to provide heat ("active" accessories such as browning skillets) may be used with caution. Be sure to test any such device before use and to read carefully and follow manufacturer's instructions provided with the accessory. Any questions concerning these accessory products should be referred to the accessory manufacturer. Amana Refrigeration, Inc., does not endorse any brand of accessory. Remember that all microwave accessories are not "top quality"; some may **not** be suitable for microwave cooking. Caution must be used when purchasing microwave accessories.
- (j) **Newspapers** must never be used in a microwave oven since they may ignite.
- (k) **Paper towels** which contain nylon or other synthetic fibers woven through them must not be used because the heated synthetics could melt and cause the paper to ignite.

Checking Oven Operation

A. Check to be sure the light works.

Locate this switch on the bottom right hand corner of your Radarange Oven:



This switch turns the interior light "on" and "off" when the oven door is closed. (The interior light will always be on when the oven door is open.) **Close the door. Push the switch to turn the light on. Push again to turn it off.**

B. Set the Clock.

To set the time of day:

1. Press **RESET**.
2. Enter the time of day by pressing the numbers in sequence. For example, if it is 10:35 (a.m. or p.m.), press the number pads in sequence beginning with the **1**, then the **0**, followed by the **3** and ending with the **5**.
3. Press **CLOCK** twice. The clock is now set.

If the power to the oven is interrupted (for example, if the oven is unplugged or if there is a power failure), the time of day may become erased or appear wrong. To reset the clock, complete Steps "1", "2" and "3" above. If the correct time does not appear, unplug the oven, reconnect it and then set the clock.

Summary — To Set the Clock

- 1) Press **RESET**.
- 2) Press numbers in sequence; for 10:35, press:
1 0 3 5
- 3) Press **CLOCK** twice.

C. Check operation of interlock systems. The **START** and **STOP** switches turn the oven on and off. Microwave energy is generated only when the door is closed, cooking time or temperature has been set, and the **START** switch has been pushed. In addition, the oven has interlock switches to assure no microwave energy is generated when the door is open.

To check or remove food from the oven before the cooking time has elapsed, you may either push the **STOP** switch or simply open the oven door to turn the oven off. Before the oven door opens, hidden interlock switches sense the motion of the door handle and automatically turn the oven off.

Here is how you may check the operation of the **START** and **STOP** and interlock switches:

1. Put a glass of water in the Radarange oven and close the oven door.
2. Locate these switches on the Radarange Oven:

START **STOP** **LIGHT**

3. Press **RESET**.
4. Press **5**, then **O**.
5. Push the **START** switch. The oven should now be operating.
6. Push the **STOP** switch. The oven should shut off immediately. The sound of the motor should cease.
7. Open the door fully. The light should come on when the door is opened.
8. Press **RESET**.

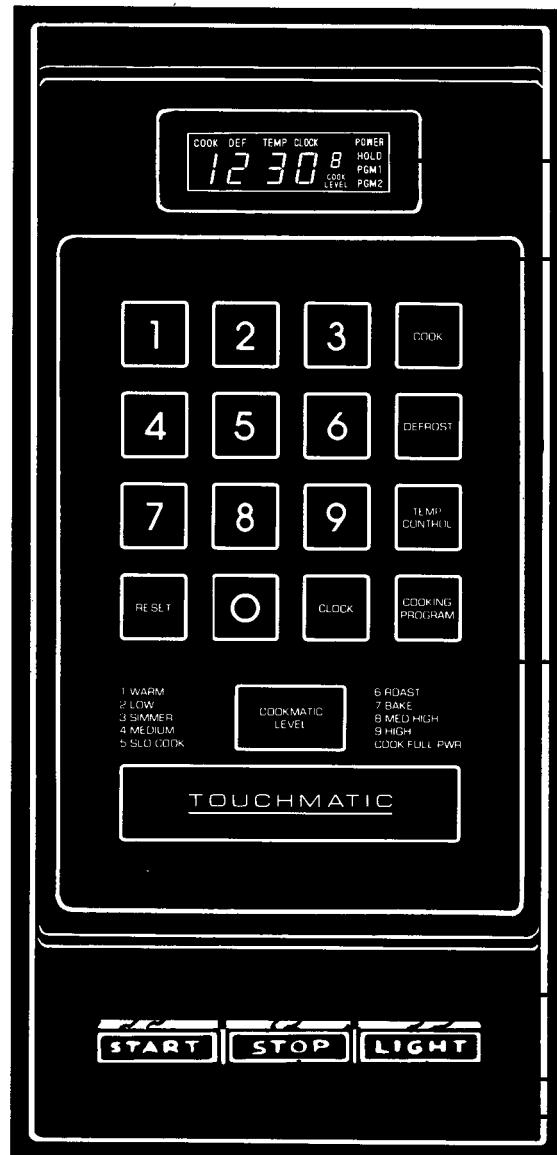
If under any of the preceding conditions the oven does not operate as stated, do not use it. Call your Amana dealer or authorized servicer.



8 Session

Quick Cooking By Time With Full Microwave Power

In this session you'll learn how to do quick cooking with full microwave power.



The control panel on your Radarange Microwave Oven looks like the picture at left. In this session you'll only use the areas outlined.

READOUT DISPLAY — Normally shows time of day.

- When cooking with time, it shows remaining cooking time.
- When cooking to temperature, it shows set temperature and actual temperature.

NUMBERS — Used to program everything into the control. They're arranged just like a touch-type telephone.

RESET — Used to cancel all instructions given to the control, except time of day. Pressed before programming any oven instructions.

START SWITCH — Pushed to start cooking operation. You must program cooking time before pushing start switch.

STOP SWITCH — Pushed any time you want to stop cooking.

LIGHT SWITCH — Pushed to turn the interior oven light on or off. Light will always be on when the door is open.

At some time while you're learning to use your Radarange Oven you may make a programming mistake. If you do make a mistake, or are confused about what you've done — it's easy to get back on the right track.

— If the oven isn't operating yet — Press **RESET**.

This will cancel all the instructions you've given the oven and you can start again.

— If the oven is operating — Press **COOKING PROGRAM**.

Pressing this pad tells the control you want to know what's happening inside the oven **right now**. If the oven appears to be doing something other than what you intended, push the

STOP switch, then press **RESET**.

This will erase everything you've set the oven to do and you can start again.

TRY IT! Cooking with Full Microwave Power

Cooking with Full Power is the fastest and easiest way to cook in a microwave oven. When at Full Power, the oven will provide approximately 700 watts* of cooking power. It's **very** fast!

- A. Put a cup or glass of water in the Radarange Oven. This is to absorb the microwaves as you experiment with the controls. When there is no food, water or other "load" to absorb the microwave energy, parts of the microwave oven could become damaged.

- B. Press the **RESET** pad. Pressing this pad causes it to cancel everything it's been told except the time of day. Always press the **RESET** pad before programming the control. This will cancel any "leftover" instructions from previous cooking or which might have been accidentally programmed by curious children.

- C. To heat the water 50 seconds with full microwave power:
 1. Press **5**, then **O**.
 2. Push the **START** switch. The readout will display 50 in the window. This signifies 50 seconds.
 - **PGMT** will automatically light up. The oven automatically cooks in Program 1 before advancing to a second program which you may have instructed it to do. In Session #5 you'll learn to use the other program.
 - Also notice the word **COOK** automatically lights up. This tells you what the microwave oven is programmed to do — COOK.
 - The word **POWER** lights up whenever the magnetron tube is producing microwave energy.
 - When the 50 seconds cooking time is finished, an audible signal will be heard and the oven will turn off.

D. To heat the water for 1 minute 30 seconds:

1. Press **RESET**.

2. Press **1**, then **3**, then **O**. The readout will be 130, signifying 1 minute 30 seconds.

3. Push the **START** switch.

*per 1 liter test.

4. **Watch the readout "count down".** Notice that the readout following 100 is 59. Remember — the last two digits of the readout mean seconds; the previous digits mean minutes. Since there are 60 seconds in a minute, the number that follows 100 (1 minute, 0 seconds) is 59, which stands for 59 seconds.

Again, notice that the word **COOK** lights up to tell you the microwave oven is programmed to cook.

5. As the readout is "counting down", **push the STOP switch or open the door.** Notice that when you stop the oven in the middle of what you're doing, it automatically "locks" the instructions in place.
6. **Push the START switch again.** When you push the start switch, the oven automatically starts cooking from where you interrupted it.
7. If you don't want to continue to cook, you can **push the STOP switch, then press RESET** to return to time of day.

Summary — To Cook With Full Power

1. Press **RESET**.
2. Press cooking time (to cook 6 minutes 10 seconds — press **6 1 0**).
3. Push **START** switch.

TRY IT! Changing a Time Entry

Occasionally you may make a mistake when entering a cooking time in the control. If you do, the entry can easily be changed.

Suppose you want to cook with full microwave power for 30 seconds but accidentally program it for 50 seconds.

- A. Put a cup or glass of cool water in the Radarange Oven.
- B. Press **RESET**.
- C. Press **5**, then **0**.
- D. To change the entry —
 1. Press **RESET**. The readout will return to time of day.

2. To enter the correct cooking time, press **3**, then **O**.

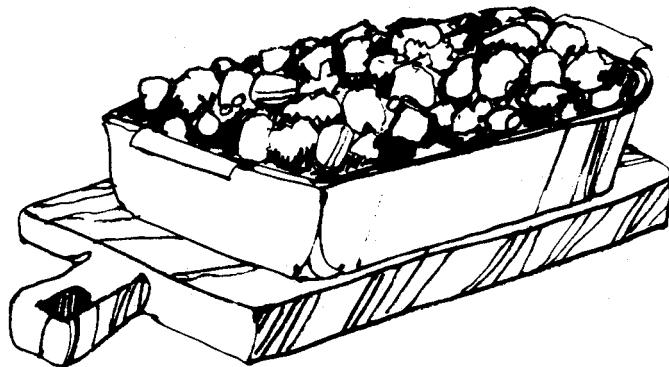
E. Push **START** switch.

Summary — To Change a Time Entry

1. Press **RESET**.

2. Reprogram correct entry.

In Session #2 you've learned how to cook with full microwave power and how to change an entry if you ever make a mistake while programming the Touchmatic Control. We suggest you practice what you've learned in Session #2 before going on to Session #3. Select any recipe in the cookbook which uses only Full Power and Try It!



Session 3

Cooking With Cookmatic® Power Levels/ Defrosting

In this session you'll learn to cook with lower microwave power levels. You'll also learn how to use the defrost cycle. Locate these controls on your Radarange Oven:



COOK PAD — Used whenever the Radarange Oven is programmed to cook a specific length of time **except** when doing quick cooking with Full Power (as you learned in Session #2).



DEFROST PAD — Used whenever the defrost cycle is desired.



COOKMATIC LEVEL PAD — Used to change the cooking power level.

TRY IT! Cooking at Cookmatic Power Levels

Many foods cook very well at full microwave power (as you learned in Session #2). However, just as some foods cook better conventionally at lower rather than higher oven temperatures, some foods cook better at lower rather than higher microwave power levels. Your Amana Radarange Microwave Oven has ten power levels to choose from. Each power level is particularly well suited for cooking different types of foods.

Each recipe in the Amana cookbook specifies the Cookmatic power level to be used for cooking. For example, the directions in your Amana cookbook for heating milk are to heat the milk for one and one-half minutes at Cookmatic Level 8. To heat a cup of milk:

A. Place a cup of milk (or a cup of cold water) in the Radarange Oven.

B. Press .

C. Press **1** **3** **O**.

D. Press **COOK**. Note: This step is different than cooking at Full Power, as you did in Session #2. The **COOK** pad **must** be pressed before proceeding to the next step.

E. Press **8**, then **COOKMATIC LEVEL**. This tells the oven you want to use #8 Cookmatic Level, which is 80% of full power.

F. Push **START** switch. The oven will now heat the milk at Cookmatic Level 8.

- Notice that **COOK** lights up, indicating the oven is programmed to cook.
- Also notice **8 COOK LEVEL** lights up, confirming the oven is cooking at Cookmatic Level 8.
- **PGM1** automatically lights up. The oven will cook in Program 1 before advancing to a second program you may have instructed it to do. In Session #5 you'll learn to use the other cooking program.
- **POWER** is flashing on and off. **POWER** lights up whenever the magnetron tube is producing microwave energy. As you will recall from Session #2, **POWER** did not flash on and off when cooking with Full Power. To cook with Cookmatic Power Levels, the magnetron tube cycles on and off, and **POWER** flashes on and off accordingly.

Summary — To Cook With Cookmatic Power Levels

1. Press **RESET**.

2. Press cooking time (to cook 1 minute 45 seconds, press

1 **4** **5**).

3. Press **COOK**.

4. Press Cookmatic Level number (to cook at Level 3

press **3**).

5. Press **COOKMATIC LEVEL**.

6. Push **START** switch.

TRY IT! Changing Cookmatic Level During Cooking

Sometimes you may want to switch the Cookmatic power level as you're cooking. For example, if something is cooking too quickly or appears like it might boil over, you'll want to change the Cookmatic power level to a lower setting. With your Amana Radarange Oven, you can change the power level instantly, without even stopping the oven.

A. Place a cup of hot tap water in the Radarange Oven.

B. Press  .

C. Press  , then  , then  again. This sets the control to use three minutes.

D. Press  . This programs the oven to cook.

E. Press  , then  . This programs the oven to use the #9 Cookmatic Level.

F. Push **LIGHT** switch, so you can see inside the oven.

G. Push **START** switch. Notice that  and  both light up.

This indicates the oven is cooking at Cookmatic Level 9. The water will start to boil during the three minutes. When it does, change the power level to a lower setting as follows:

1. Press  , then  . Notice that  lights up, indicating the oven is cooking at Cookmatic Level 2. Watch the water — it will stop boiling but it will stay hot.

2. Press   . This changes the Cookmatic level to Full Power. The water will now start to boil. Remember — when no Cookmatic power level is programmed, the Touchmatic control assumes you want to cook at Full Power. Therefore, to change a Cookmatic level from a lower setting back to Full Power, you must set the oven for "0" Cookmatic Level.

Summary — To Change Cookmatic Level While Cooking

1. Press new Cookmatic Level number (to cook at Cookmatic Level
3 press **3**).
2. Press **COOKMATIC LEVEL**

TRY IT! Defrosting

Your Radarange Microwave Oven is designed to allow quick defrosting of frozen foods. Most foods are defrosted using the defrost cycle. The defrost cycle pulses microwave energy on and off automatically. During the "on" periods (approximately 30% of defrost time programmed) microwave energy is produced heating the exterior of the frozen food. During the "off" periods the heat is conducted to the interior of the food. This allows the food to be evenly defrosted, with little or no cooking of the exterior before the interior is completely thawed.

Defrosting instructions for specific types of foods are provided at the beginning of appropriate chapters of your Amana cookbook. A 10 oz. package of frozen fruit is defrosted in 3-1/2 to 4-1/2 minutes.

- A. **Unwrap and place 10 oz. frozen fruit in a 1-quart covered casserole.** If the fruit is packaged in a plastic bag, merely slit the bag to allow steam to escape. (If you do not have frozen fruit on hand, place 2 ice cubes in a cup in the Radarange Oven.)
- B. **Place fruit or cup of ice in Radarange Oven.**
- C. Press **RESET** to erase any previous instructions.
- D. Press **3**, then **3**, then **O**. This sets the control for three minutes 30 seconds of time. (Note: Start with the shortest amount of time and increase only if needed.)
- E. Press **DEFROST**.

F. Push **START** switch. Notice that the word **DEF** lights up. This indicates the oven is programmed to defrost the fruit. The microwave power is being cycled on and off automatically as indicated by the word **POWER** flashing on and off.

G. At the end of 3-1/2 minutes, remove the casserole from the Radarange Oven. Remove cover, and stir fruit.

H. If additional defrosting is necessary return fruit to oven, press **1** **0** **0**, then **DEFROST**; push **START** switch.

Note: Some frozen foods defrost better on one of the lower Cookmatic power levels. If defrosting with a Cookmatic power level is recommended, follow the directions for cooking with Cookmatic power levels (page 13). The **DEFROST** pad is not used when defrosting with lower Cookmatic power levels.

Note: Many foods, especially meats, need to be completely defrosted before cooking begins. If not completely defrosted on the inside as well as the outside, cooking will be uneven. If ice crystals remain in the inside of meats when cooking starts, the meat will be done on the outside while the inside is underdone. Defrosting times and power levels suggested in the Amana cookbook have been thoroughly tested to provide optimum defrosting. Be sure to follow defrosting instructions exactly.

Summary — To Defrost (Using Defrost Cycle)

1. Press **RESET**.
2. Press defrosting time (to defrost 8 minutes press **8** **0** **0**).
3. Press **DEFROST**.
4. Push **START** switch.

TRY IT! Changing Cooking or Defrosting Time After the Oven is Started

In Session #2 you learned to press **RESET** to erase a time entry before the oven is started. You can also change a time entry after the oven is started. You merely "write over" the original entry.

A. Place a cup of cool water in the Radarange Oven.

B. Press **RESET**.

C. Press **2 0 0**. This sets the oven to cook for 2 minutes

at Full Power. Since most of your cooking will be done at Full Power, the Touchmatic Control assumes it should Cook at Full Power unless you set it differently.

D. Push the **START** switch. The oven will now start cooking.

E. Press **1 0 COOK**. Watch the readout switch to 10 seconds cooking time, count down to zero and sound a tone.

F. Now let's try changing a defrost time while the oven is defrosting.

Press **3 0 0 DEFROST**. The oven is now set to defrost for 3 minutes.

G. Push **START** switch.

H. Press **1 0 0 DEFROST**. Notice the readout changes to 100

and the word **DEF** continues to light up. Notice you **must** press

the **DEFROST** or **COOK** pad when you change the time setting when the oven is operating. If you **don't**, the control can't accept the instruction.

Summary — To Change Cooking or Defrosting Time After the Oven is Started

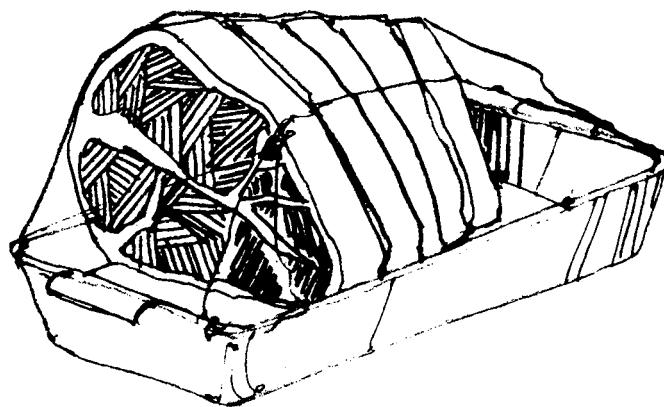
Write directly over the ongoing program as follows:

1. Press new time (to change the setting to 1 minute, press

1 0 0).

2. Press **COOK** or **DEFROST**, depending on which function the oven is performing.

In this session you've learned to cook with lower microwave power levels. Plus you've learned to use the Radarange Oven automatic defrost cycle. We suggest you practice what you've learned in Session #3 before going on to Session #4. Try any recipe in the cookbook which uses any one of the Cookmatic power levels. You will also want to try defrosting. Select any food in a defrost chart (at the beginning of appropriate chapters in your Amana cookbook) and try it!



SESSION 4

Using the Automatic Temperature Control System

Your Amana Radarange Oven has an automatic temperature control system which allows you to cook food to the precise temperature desired. You'll find this feature particularly helpful for cooking meats to the exact temperature you want. You can also use it to reheat leftovers, to warm soups and beverages and for many other cooking tasks.

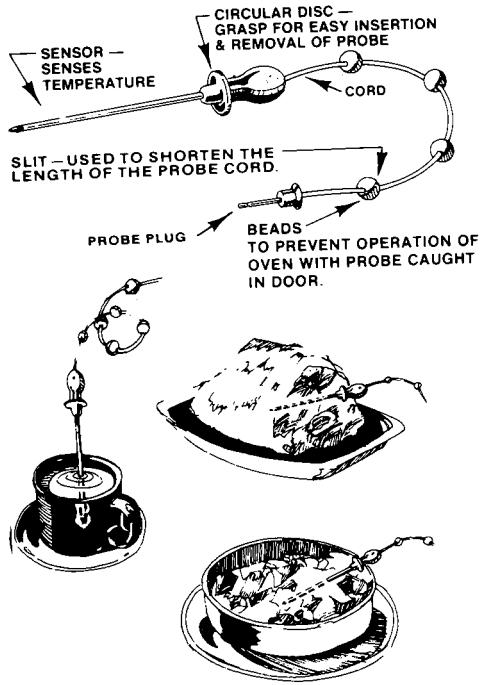
The temperature probe is not intended for use as a candy thermometer. The highest temperature sensed by the probe is 190° F, while most candies require temperatures of 230° F or higher. The Amana Radarange microwave oven Touchmatic Candymaker (model MCT-1) may be used with your Amana Touchmatic Radarange Oven. See your Amana dealer for ordering information.

Do not confuse the temperature probe with the Candymaker. The Touchmatic Candymaker has brown beads and a white cord with the word "Candymaker" on the handle. The temperature probe (the one that came with your oven) is all brown.

Locate this control on your Radarange Oven:



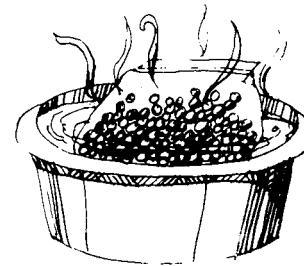
TEMP CONTROL PAD — Used to cook food to a given temperature. It will also automatically hold food at the specified temperature until you turn the Radarange Oven off.



Special Hints for Using the Temperature Probe

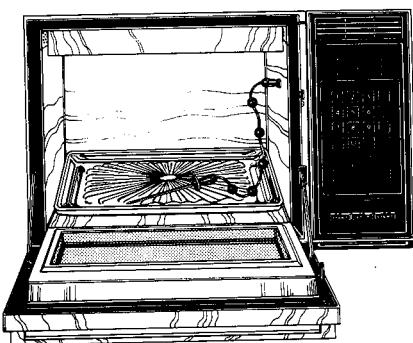
1. Insert probe as instructed in recipe or as shown at lower left.
 - a. Meats
 - With the sensor tip in the thickest section, halfway between the center and outside edge of the meat, away from fat and bone. Be sure the probe is inserted into the largest lean area of the meat.
 - b. Casseroles, Leftovers
 - With tip in center of casserole or dish, not touching bottom or sides.
 - c. Beverages
 - With tip in center of liquid.
2. Be sure probe is **securely** inserted into food. If probe should accidentally fall out of food it will sense air temperature and the food will not cook properly. The probe could become damaged. If the probe tends to slip out of the food, loop the cord (as shown in the beverage drawing at left). The cord can be secured in the slit in the bead closest to the probe plug. Simply loop the cord, then press a section of the cord into the slit in the bead.

3. If necessary, use a hot pad to remove hot temperature probe. During cooking the probe could become hot enough to burn you.
4. Wash the probe with hot, soapy water. Do not immerse the probe plug in water or wash in an automatic dishwasher. Rinse and dry probe thoroughly.
5. **Always remove the temperature probe after use.** Store the temperature probe somewhere other than inside the Radarange Oven, in a place where it won't be lost or damaged.
6. Do not attempt to force the temperature probe into solidly frozen foods. The temperature sensor tip could be damaged or the probe could break.
7. Do not use the temperature probe in conjunction with foil or other metal. Arcing could result. **If a recipe suggests the use of foil, do not use the temperature probe for cooking.**
8. Do not attempt to operate the microwave oven if the temperature probe should accidentally get caught in the oven door.
9. Do not use the Automatic Temperature Control System when cooking different dishes or foods in the Radarange Oven at the same time. Because different foods cook at different rates, the results may be unsatisfactory.



TRY IT! Cooking to Temperature

Try using the Automatic Temperature Control System to heat water to 190° F to make instant coffee.



For

110°F	Press	1
120°F	Press	2
130°F	Press	3
140°F	Press	4
150°F	Press	5
160°F	Press	6
170°F	Press	7
180°F	Press	8
190°F	Press	9

1	0	9
ACTUAL TEMPERATURE	PROGRAMMED TEMPERATURE	

- A. Place cup of cold water in Radarange Oven.
- B. Insert probe plug into the probe receptacle on the right side of the microwave oven cavity.

- C. Place tip of probe in center of cup.

- D. Close Radarange Oven door.

- E. Press **RESET**.

- F. Press **9**. You always press the middle number of the

desired end temperature. See chart on this page.
The lowest temperature which can be sensed by the temperature probe is 110° F; the highest 190° F.

- G. Press **TEMP CONTROL**. This sets the control to cook food to and hold the food at the temperature specified.

- H. Push **START** switch. When using the automatic temperature control system, no cooking time is programmed, since the oven will cook by temperature alone. Notice the word **POWER** lights up. This indicates the Radarange Oven is cooking at Full Power.

Also notice the word **TEMP** lights up. This happens whenever the Radarange Oven is cooking to temperature.

Watch the readout display. On the right side will be a white "9". This indicates the end temperature you have programmed (remember 9 stands for 190° F. You always program the middle number of the desired temperature.)

On the left side you will see a number indicating the **actual** temperature. A "0" means that the actual temperature of the water is less than 110° F, the lowest temperature sensed by the temperature control system. A "1" would indicate the actual temperature is 110° F. The number on the actual temperature readout will increase until the programmed temperature is reached.

The Radarange Oven will sound a tone when the programmed temperature is reached and both numbers displayed are the same.

- I. Push the **STOP** switch when you hear the tone. (Don't worry if you don't push **STOP** immediately, because the Radarange Oven will hold the water at 190° F until you stop it, as you will learn in "Holding at Temperature".)
- J. Add instant coffee to water.

Note: In this example, you cooked to temperature using Full Power. You can also cook to temperature using a lower Cookmatic Power Level. For example, if you were heating milk, you would want to cook at Cookmatic Level 8 to 140° F. To cook at a lower Cookmatic Level, complete Steps "A" through "G", at left, then press the Cookmatic level number and **COOKMATIC LEVEL** pad before pushing the **START** switch.

Note: The Radarange Oven has an automatic "temp-probe check". Whenever the oven's control is told to cook with temperature, it automatically checks to be sure the probe plug is securely fastened in the oven receptacle and is working correctly. If the probe plug is not securely placed in the receptacle or is not working correctly, the Error Signal sounds (a short tone) and the display returns to time of day when you press **TEMP CONTROL**.

So — if the Error Signal sounds and the display returns to time of day when you press **TEMP CONTROL** — check the following:

- 1) Is the probe plug securely inserted into the oven receptacle? If not, reinsert the probe and reprogram instructions.
- 2) If the Error Signal still sounds when you press **TEMP CONTROL**, the probe may be broken. See page 45 for instructions of what to do when service is required.

Summary — To Cook to Temperature

1. Insert probe into food and oven receptacle.
2. Press 
3. Press middle number of desired end temperature (to cook to 140° F, press **4**).
4. Press 
5. If less than full microwave power is desired, press Cookmatic power level number, then press 
6. Push **START** switch.
Readout on right side of display signifies desired end temperature. Readout on left side signifies present temperature. The numbers displayed are the **middle** numbers of the temperatures ("4" means 140° F).
When the actual temperature reaches desired end temperature, a signal sounds.
7. Push **STOP** switch to turn oven off when signal sounds that the food has cooked to temperature.

TRY IT! Holding at Temperature

The temperature-holding capability of your Amana Radarange Microwave Oven allows you to prepare the most even, tender meats ever cooked in a microwave oven. You can also maintain a precise simmer of sauces, stews and soups for as long as you wish. And you can hold a casserole, fondue, meat or almost any other food at serving temperature for even the latest of the late-arrivals.

To illustrate, suppose you want to hold liquid at a 140° F temperature.

- A. Place a cup or glass of fresh cold water in the Radarange Oven.
- B. Insert probe into the middle of cup. Insert the probe plug into the oven receptacle.
- C. Close Radarange Oven door.
- D. Press 
- E. Press **4**. Remember, you press the middle number of the desired temperature.
- F. Press 

G. Push **START** switch. The Radarange Oven will heat the water with full microwave power to 140° F. The microwave power will then cycle on just often enough to maintain the temperature at 140° F until you turn the oven off, by pushing the **STOP** switch or by opening the oven door. The word **TEMP** lights up indicating the oven is programmed to take the food to the given temperature and hold it there automatically. The word **POWER** lights up to indicate that the oven is generating microwave power.

Notice the readout display. The "4" on the right side of the display indicates the oven is holding the food at 140° F. The number on the left side of the display is the actual temperature of the food at any given time. The left number will go from 0 to 4 as the water is heated. When the left number reaches 4 (the desired temperature) a tone will sound and the Power light will go out. At this point, the food has cooked to temperature, and the oven begins "holding at temperature" automatically.

While holding at temperature, you may notice the left number fluctuate between 3 and 4 and the Power light flashing on and off. This is normal. As the water cools slightly, the microwave power cycles on just often enough to reheat the water to 140° F.

H. Push **STOP** switch to turn oven off. Remove probe from oven.

I. Press **RESET** to return readout display to correct time of day.

Note: In the above example, you cooked and held at temperature using full microwave power. To cook at a lower Cookmatic power level, complete Steps "A" through "F", then press the desired

Cookmatic power level number and **COOKMATIC LEVEL** pad before pushing the **START** switch.

Note: If you wish to use the temperature hold feature, especially with cooked meat, poultry or fish, it should be held at 140° F or above to prevent the growth of bacteria or the production of toxins.

Summary — To Hold at Temperature

1. Insert probe into food and oven receptacle.
2. Press **RESET**.
3. Press middle number of desired holding temperature (to hold at 150° F, press **5**).

4. Press 
5. If less than full microwave power is desired, press desired Cookmatic power level number, then press 
6. Push  switch.
7. Push  switch to turn oven off when desired.
8. Press  to return readout display to correct time of day.

TRY IT! Changing Programmed Temperature While Cooking

Occasionally you may want to change the programmed temperature while you're cooking. This can be done while cooking to temperature or while holding at temperature. To try this, complete Steps "A" through "G" of "TRY IT! Holding at Temperature", pages 24-25. To change the temperature without stopping the oven:

- A. Press middle number of desired temperature (Press **5** for 150° F).
- B. Press 
- C. Push  switch to turn the oven off, when desired.
- D. Press  to return readout display to correct time of day.

If you change the programmed temperature before the oven has reached the originally programmed temperature, the signal will sound when the newly programmed temperature is reached.

If you change the programmed temperature after the oven is holding at the originally programmed temperature, the signal will have already sounded (for the originally programmed temperature), so it will not sound when the newly programmed temperature is reached. In this case, if you want the signal to sound when the newly

programmed temperature is reached, push  , program the new temperature, and push 

TRY IT! Using the Temperature Probe Without Cooking

You can also use the temperature probe as a thermometer, even when the oven isn't cooking! For example, you may want to measure to see if tap water is warm enough to soften dry yeast (110° F), or if food is less than serving temperature (less than 140° F).

- A. Place a glass of hot tap water in the Radarange Oven.
- B. Insert temperature probe in the water. Insert probe plug into the oven wall receptacle.
- C. Press  .
- D. Press  pad. The number which appears on the left side of the readout display signifies the actual temperature. For example, if a "2" appears on the display the water is 120° F. If a "0" appears, the water is less than 110° F.
- E. Press  to return readout display to time of day.

Summary — To Use the Temperature Probe Without Cooking

1. Insert temperature probe tip into food; insert probe plug into oven wall receptacle.
2. Press  .
3. Press  .
4. To return readout display to correct time of day, press  .

In this session you have learned to use the Automatic Temperature Control System both to cook to temperature and to hold food at a given temperature. We'd suggest trying each of these cooking procedures on your own before going on to Session #5. In Session #5 you'll learn to use the Cooking Programs of your Amana Radarange Microwave Oven.

Programmed Cooking / The Error Signal / Touchmatic Instant Replay

Your Amana Radarange Microwave Oven has a memory which allows it to remember two programs — and it can automatically remember a special "third" program, too.

With programmed cooking you can combine the different ways of microwave cooking you learned in Sessions #2 through #4 to achieve optimum flavor and tenderness. Yet you only program the instructions once, and you can often forget the food until serving time.

Locate this control on your Radarange Oven:



COOKING PROGRAM PAD — Used to "advance" to the second program level. Also used when reviewing programmed instructions.

By using the pad, you can set your Radarange Oven to do useful combinations of the following program options (functions):



Defrost with automatic Holding



Cook by time using any 1 of 10 power levels



Cook to temperature and hold using any 1 of 10 power levels.

The automatic defrost holding feature was not used in previous sessions. That's because **automatic defrost holding is not a feature which is**

used by itself. When is followed with a second program

of or , your oven will **automatically "hold" for a time**

period equal to the Defrost time specified.

Automatic defrost holding should not be confused with "holding at temperature" you learned about in Session #4. Many foods, especially meats, need to be completely defrosted before cooking begins. If not completely defrosted on the inside, as well as the outside, cooking will be uneven. Automatic defrost holding assures the food is completely defrosted before cooking begins. During automatic defrost holding, no microwave power is applied to the food. The light will be off and

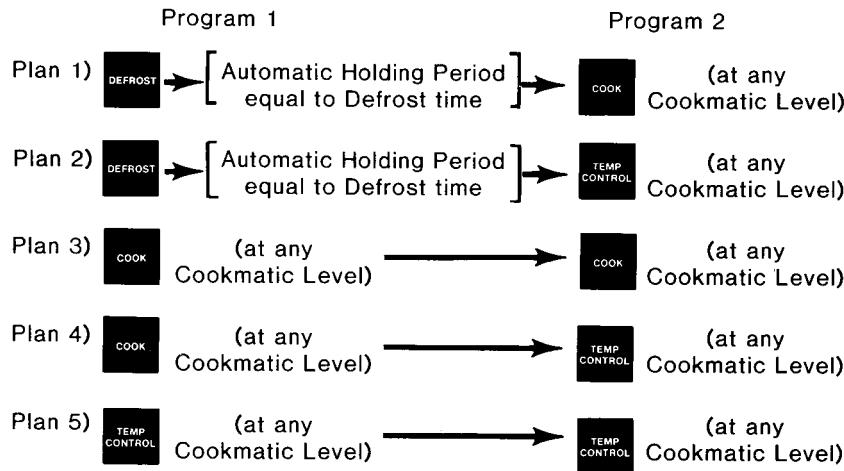
the word **HOLD** will light up. The fan stays on to circulate air, but no microwave power is produced. This allows the food temperatures to equalize and assures more uniform cooking.

The automatic defrost holding feature allows you to take food from the freezer to the table in minutes. Frozen foods can be quickly defrosted, then automatically "held" to equalize the food temperature, and then quickly cooked. You don't have to time the holding period and you don't have to return to the oven to set the cooking time.

Programming is Simple!

Your Amana Radarange Oven provides flexibility and automatic convenience with programmed cooking — while being simple to use. All you do is sequentially press the correct pads and push the start switch.

With your Radarange Oven you can combine these functions or program options: **DEFROST**, **COOK**, and **TEMP CONTROL** into these five (5) basic programmed cooking sequences:



To decide when to use programmed cooking, check the recipe or food chart and see if it tells you to cook the food first one way and then another, in sequence. If so, see which of the above cooking program sequences fits the recipe. Then program your Radarange Oven to cook the first way in Program 1 and second way in Program 2.

For programmed cooking press the pads in this sequence:

- Press **RESET**.

- **Give you oven the instructions for Program 1.**

This is done just as you learned in Sessions #2 through #4. Always tell it a number (or numbers) before you tell it a function (**DEFROST**)

or **COOK** or **TEMP CONTROL**).

- Press the  pad to "step" or "advance" to Program 2.
- Give the instructions for Program 2. Just as you did in Program 1, tell it a number (or numbers) before you tell it a function ( or ).
- Then push . Your oven will always begin cooking in Program 1.

Cooking Programs are Easy to Check!

Once you've programmed instructions, it's easy to check to be sure you've made no mistakes. You should always check cooking programs before starting the Radarange Oven. If you don't correct a mistake, food won't be cooked properly — or it could even be ruined.

The  pad is used to check programs. This is done while the oven is not running. For example, after programming the instructions for Program 2, and before starting the Radarange Oven, press

 once, and the time of day is displayed. Press  a second time and  is flashing and the readout displays what is programmed for Program 1. Press  a third time and you can review Program 2 instructions.

If the Radarange Oven has started and you want to check what's programmed for Program 2, simply push  and press

 until  is flashing. You can now review what is programmed for Program 2.

After checking, push  and the Radarange Oven will resume cooking where you stopped it.

TRY IT! Programmed Cooking

For practice using the cooking programs, let's pick an example of each of the five (5) basic cooking program plans from your Amana cookbook. We will substitute a glass or cup of fresh, cold water for the food, and we will shorten some of the cooking times so that you can get quick practice.

A. Cooking Program Sequence 1: Defrost — Automatic Hold — Cook by Time

- 1) Refer to the "Frozen Sandwich Defrosting and Heating Chart" in your Amana cookbook.
 - This chart provides one example of the many times you will want to use the Defrost—Hold-Cook by Time cooking programming sequence.
 - Let's use the 3-1/2—4 oz. frozen sandwich on the first line as our example.
 - Notice the defrosting time on Defrost is 1 minute.
 - See that you are to allow a holding time equal to the defrost time.
 - Note the cooking time is 30 seconds to 1 minute on Full Power.

2) Place a glass or cup of fresh, cold water in the Radarange Oven.

3) Close oven door.

4) Press  . (Remember — this is to cancel any "leftover" instructions.)

5) Press all pads required for Program 1 (Defrosting):

- The 1st Cooking Program in our example is to defrost 1 minute.
- Program as you learned in Session #3.

Press  , then  , then  .

Press  .

6) Press the  pad.

Notice that  lights up and  is flashing on and off. This means that the Radarange Oven is remembering what it was told to do in Program 1, and it is ready to accept instructions for Program 2.

7) Press all pads required for Program 2 (cooking by time):

- Our example is to cook 30 seconds to 1 minute at Full Power.
- Program as follows:

Press  , then  .

Press  . (Note: You must press the function pad — even when cooking on Full Power — whenever you are giving your oven instructions for more than 1 cooking program.)

8) Check to be sure you've programmed instructions correctly.

To check:

- Press **COOKING PROGRAM**. The display will show the time of day, and **PGM1** and **PGM2** will light up telling you the Radarange Oven is remembering to do something in both programs.
- Press **COOKING PROGRAM**. The display shows 1 minute of cooking time, **DEF** lights up to show the Radarange Oven will be defrosting, and **PGM1** is flashing, telling you that these instructions are for Program 1.
- Press **COOKING PROGRAM**. **PGM2** is flashing, telling you the instructions being displayed are for Program 2. The word **COOK** lights up, and 30 seconds is the cooking time in the display.

9) Push **START**.

- Watch as the oven defrosts for 1 minute.
- When defrosting time has completed, notice **HOLD** lights up, **POWER** is off, and the display is counting down 1 minute. This is the automatic defrost holding (equal to defrost time).
- After holding 1 minute, the oven will cook 30 seconds on Full Power.

B. Cooking Program Plan 2: Defrost—Automatic Hold—Cook to Temperature

- 1) See the instructions on page 21 regarding the use of the temperature probe with frozen foods.
- 2) Refer to the "Frozen Main Dish Defrosting Chart" in your Cookbook.
 - This chart is just one example of a Defrost—Automatic Hold—Cook to Temperature sequence.
 - Look at the instructions for "1 quart", and substitute seconds for minutes to save time in our practice.
 - Note that a holding time equal to the defrosting time is recommended.
 - Substitute 15 seconds for 15 minutes defrosting time. Instead of cooking by time, use the special instructions to use the temperature probe and cook to 150° F at Cookmatic Level 8 in the 2nd Cooking Program.
- 3) Place a glass or cup of fresh, cold water in the Radarange Oven.

- 4) Insert probe plug into the probe receptacle.
- 5) Place tip of probe in center of cup.
- 6) Close oven door.
- 7) Press  .
- 8) Press all pads required for Program 1 (Defrosting):
 - Our practice example is to defrost 15 seconds.
 - Program as you learned in Session #3:

Press  , then  .

Press  .

9) Press  pad to advance to Program 2.

10) Press all pads required for Program 2 (Cooking to temperature):

— The 2nd Cooking Program is to cook to 150° F at Cookmatic Level 8.

— Program as you learned in Session #4:

Press  , for 150° F,

Press  .

Press  .

Press  .

11) Check to be sure you programmed the instructions correctly by pressing the  pad.

— Press  once and see time of day.

— Press  a second time and review Program 1.

— Press  a third time and review Program 2.

12) Push  . The oven will defrost 15 seconds, automatically hold 15 seconds, and cook to 150°F using Cookmatic Level 8.

13) Push  and press  .

C. Cooking Program Sequence 3: Cook by Time—Cook by Time

1) Refer to the "Dried Legume Cooking Chart" in your Amana cookbook.

— Let's use Baby Lima Beans as our example, substituting seconds for minutes.

— We will cook on Full Power for 8 seconds for the 1st Cooking Program.

— For the 2nd Cooking Program we will cook on Cookmatic Level 4 for 12 seconds.

2) Place a cup or glass of fresh, cold water in the Radarange Oven.

3) Close oven door.

4) Press .

5) Press all pads required for Program 1 (the 1st Cooking Time):

— Press .

— Press . (Note: You must press the function pad — even when cooking on Full Power — whenever you are using more than 1 cooking program.)

6) Press the .

7) Press all pads required for Program 2 (the 2nd Cooking Time):

— Press , then .

— Press .

— Press .

— Press .

8) Check to be sure you've programmed instructions correctly by pressing the  pad successively and reviewing the Touchmatic Control.

9) Push . The oven will cook at Full Power for 8 seconds, and then cook at Cookmatic Level 4 for 12 seconds.

D. Cooking Program Sequence 4: Cook by Time—Cook to Temperature.

1) Refer to the "Meat Cooking Methods: Summary Chart" in your Amana cookbook.

— Look at the Tender Meats instructions.

— Let's cook at Cookmatic Level 9 for 20 seconds for the 1st cooking time.

— For the 2nd Cooking time, let's cook to a temperature of 140° F, at Cookmatic Level 6.

2) Place a glass or cup of fresh, cold water in the Radarange Oven.

3) Insert probe plug into the probe receptacle.

4) Place tip of probe in center of cup.

5) Close oven door.

6) Press  .

7) Press all pads required for Program 1 (Cooking by time):

— Press  , then  .

— Press  .

— Press  .

— Press  .

8) Press the  pad.

9) Press all pads required for Program 2 (Cooking to temperature):

— Press  , for 140°F.

— Press  .

— Press  .

— Press  .

10) Check and review the instructions by using the  pad to advance.

11) Push  . The oven will cook for 20 seconds using Cookmatic Level 9, and then cook to 140° F, using Cookmatic Level 6.

12) Push  and press  .

E. Cooking Program Sequence 5: Cook to Temperature—Cook to a Second Temperature.

1) For the 1st Cooking Program, let's cook to a temperature of 140° F, at Cookmatic Level 5.

For the 2nd Cooking Program, we will cook to a temperature of 160° F, using Full Power.

2) Place a glass or cup of fresh, cold water in the Radarange Oven.

3) Insert probe plug into the probe receptacle.

4) Place tip of probe in center of cup.

5) Close oven door.

6) Press  .

7) Press all pads required for Program 1 (Cooking to Temperature):

- Press  , for 140° F.
- Press  .
- Press  .
- Press  .

8) Press  .

9) Press all pads required for Program 2 (Cooking to a Second Temperature):

- Press  , for 160° F.
- Press  .

10) Check and review the instructions by using the  pad to advance.

11) Push  . The oven will cook to 140° F, using Cookmatic Level 5, and then cook to 160° F using Full Power.

12) Push  and press  .

Summary — To Cook With Cooking Programs

1. Press  .
2. Press all pads for Program 1, pressing numbers before functions.
3. Press the  pad to advance to Program 2.
4. Press all pads for program 2, pressing numbers before functions.
5. Check to be sure you've pressed in all the programs correctly by pressing  to advance.
6. Push  switch.

To Change a Cooking Program After the Oven is Started

Sometimes you may want to change part of a cooking program after you've started the oven. For example, you may want to change the end temperature, the length of cooking time or the Cookmatic power level to be used.

- **To change Program 1 while the oven is cooking in Program 1,** simply press in the correct instructions, pressing the number (or numbers) first and then pressing the function.
- **To change Program 2 while the oven is cooking in Program 1,**

push **STOP**. Press **COOKING PROGRAM** to advance to Program 2.

Press new instructions for Program 2, pressing number (or numbers) first and then pressing the function. Push **START** and the Radarange Oven will resume cooking in Program 1.

- **To change Program 2 while the oven is cooking in Program 2,** simply press in the new instructions — no need to stop the oven. Remember to press the number (or numbers) first, and then press the function.

The Error Signal

Programmed cooking is so easy with your Radarange Oven — it can even tell you when you have accidentally programmed something illogical.

Your oven will not accept instructions to **DEFROST** in Program 2. The attempt to do so produces the Error Signal. When using **DEFROST** in a cooking program plan, you will want to defrost the food first before cooking it. So it is illogical to put **DEFROST** in Program 2.

TRY IT! Producing the Error Signal

Let's try programming the illogical cooking program so that we will know what the Error Signal is and just when it occurs.

To illustrate the illogical  cooking program combination, let's try to tell the Radarange Oven to cook for 1 minute in Program 1 and defrost for 30 seconds in Program 2.

A. Place a glass or cup of fresh, cold water in the Radarange Oven.

B. Close Radarange Oven door.

C. Press .

D. Press all pads required for Program 1.

1) Press , then , then .

2) Press .

E. Press the  pad to advance to Program 2.

F. Press all pads required for Program 2.

1) Press , then .

2) Press . The Error Signal sounded when you

pressed  and the display went blank.

Notice that  is glowing and  is flashing on and off. This tells you that the Radarange Oven is remembering the instructions you put into the 1st Cooking Program and the Radarange Oven is ready to accept valid, logical instructions for the 2nd Cooking Program. You can now either program the oven to use  or  in Program 2, or you can start the oven and use only the 1st Cooking Program.

G. Press  to return to time of day.

Touchmatic Instant Replay

Your Amana Radarange has "instant replay" features that let you ask it questions. Questions like:

What time is it? (For example, you may want to know the time while the oven is cooking.)

What's the temperature of the food? (For example, to decide if a food needs reheating or if water is "lukewarm" as called for in recipe.)

TRY IT! Touchmatic Instant Replay

- A. Place a cup or glass of fresh, cold water in the Radarange Oven.
- B. Insert the probe into middle of cup. Insert the probe plug into the oven receptacle.

C. Press .

- D. Press-in these instructions:

1st Cooking Program: Defrost 1 minute

2nd Cooking Program: Cook to and hold at 140° F
using Cookmatic Level 5

1) Press 

2) Press .

3) Press .

4) Press 

5) Press 

- E. To ask the oven "What's the temperature of the water?"

press .

A number should appear on the left side of the readout display. This tells you the actual temperature of the water right now. (Remember the number on the display is the **middle** number of the actual temperature. A "3" means 130° F. A "0" means the water is less than 110° F.)

 Press 

- F. To ask the oven "What did I tell you to do in the second cooking

program?" Press 

- G. Push <img alt="START button" data-bbox="418 674 484 694}. The oven will now start the sequence you told it to do. You could ask the oven "What's the temperature of the water?" while it is operating. To do so, press <img alt="TEMP CONTROL button" data-bbox="688 708 714 728}, as you did above.

H. To ask the oven "What time is it? press  . The readout display will now show the time of day.

Press  to return the readout display to the ongoing cooking function.

I. Push **STOP** and press .

Summary — To Check Present Temperature of Food (temperature probe must be inserted)

1. Press  . Readout will be the middle number of the actual temperature ("4" means 140° F).
2. To return to display of ongoing function, press .

Summary — To Check Present Time of Day (clock must be set to correct time of day)

1. Press  . Readout will be present time of day.
2. To return to display of ongoing function, press .

Summary — To Review Cooking Program 2

1. If the oven is operating, push **STOP**.
2. Press  to advance to Program 2.
3. Push **START**. The oven will begin or resume cooking in Program 1.

Read "Meal Planning," the second section of your Amana cookbook. In this section you'll learn how to make entire meals in your microwave oven.

Maintenance

Maintenance Tips / Cleaning the Unit

To Clean the Oven and Door Interior

If the inside walls, floor, door, and splatter shield at the top of the oven should become splattered, simply wipe them with a paper towel or clean with a mild detergent in warm water using a soft sponge or cloth. If desired, a cup of water can be boiled in the oven to loosen soil before cleaning.

Do not use an abrasive to clean the inside. It might damage the finish on the stainless steel. Never pour water into the bottom of the oven.

To Clean The Glass Tray, lift up the tray and remove. Wash in warm water and detergent or in a dishwasher. Replace drip tray so the word "Front" is readable. Do not operate the oven without tray in position.

To Clean The Splatter Shield Inside Oven

The splatter shield keeps the top of the oven and antenna from getting dirty. Normally, a damp cloth will remove any splatter from the shield. However, if you want to clean it more thoroughly, remove the splatter shield. **Be careful not to bend the antenna when removing the splatter shield.** The shield is secured by four screws in recessed wells in the front underside of the shield and four tabs which fit into slots in the back oven wall. Remove the four screws. Then carefully lower the shield and, clearing the antenna, pull the shield forward out of the back wall slots and out of the oven.

Wash the shield in hot, soapy water. **Do not wash in a dishwasher. Do not use harsh or abrasive cleansers.**

When replacing, again be careful not to bend the antenna. Also be sure the splatter shield tabs fit snugly into the slots in the back of the oven before replacing the screws.

To check antenna operation, place a glass or cup of water in the unit, close the door, turn on the oven light and start the unit. A rotating shadow should be visible above the splatter shield.

To Clean The Oven Exterior, use a soft sponge or cloth dampened with mild, sudsy water. Do not use abrasive cleaners.

Always Keep The Control Panel Clean.

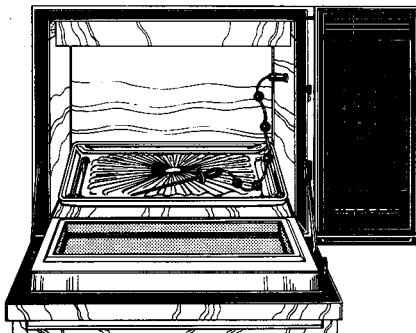
If it is not clean, it may not register the instructions you press. To clean the control panel merely wipe with a **damp** soft cloth or sponge. If the time of day display is accidentally erased from the control,

merely press **RESET**, then set the correct time of day.

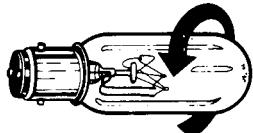
To Clean The Temperature Probe wash the metal probe in hot, soapy water. Do not immerse the probe plug or wires in water. Do not wash probe in dishwasher.

To Clean The Discharge Air Vents

There will be a slight build-up of cooking vapors in the discharge vent located in the upper right hand corner, above the control panel. This vent should be cleaned occasionally. Do not attempt to remove the front of the control module; it is an integral part of the oven. Clean the air vent with a damp cloth.



Before Calling for Service



To remove bulb,
press in and
turn counterclockwise.

How to Change the Oven Light

Always unplug the oven from the electric outlet before you change the oven light.

The light bulb for the inside of the oven can easily be changed from the back. On the upper right hand side of the oven back is a metal plate with one screw. The light bulb is located behind this plate.

Follow these steps to change the bulb:

- a) Unplug the Radarange Oven from the electric outlet.
- b) Facing the oven back, remove the screw, allowing the metal plate and light to swing outward.
- c) Remove the bulb, being careful not to burn fingers or break the bulb. (To remove the bulb press into socket and turn counterclockwise.)
- d) Replace the bulb with a 25-watt 25T8DC bayonet base bulb. To replace the bulb press into socket before turning clockwise.
- e) Reposition the plate, being careful not to bend the hinge tabs. Replace the screw.
- f) Connect the Radarange Oven to the power outlet.

If the Glass Tray Should Break

The glass oven tray must be in place when operating the oven. This allows the microwaves to be reflected up into the bottom of the food that is being cooked. The tray is a special type of glass and, if it is accidentally broken, it must be replaced with the same type of glass from your Amana Dealer.

Avoid Unnecessary Service Calls

Avoid unnecessary service calls for difficulties that are not the result of defective workmanship or materials. You will be charged for service person's travel expenses and labor, even though the product may be in warranty, if the difficulty is not caused by workmanship or materials, or if that component is considered customer replaceable.

Amana Touchmatic Radarange microwave ovens with space-age, electronic control modules offer the finest in versatility, quality and reliability. In many cases, a customer call for module timer service is caused by conditions other than failure of the Touchmatic controls. That's why you should read the following before calling for service.

NOTE: A Power Interruption Signal (dash lines) will appear in the readout display whenever the oven is initially plugged into an electrical outlet. The lines will also appear to indicate electrical power to the oven has been interrupted and then restored. When you see these lines, simply press the **RESET** pad and they will disappear. Then set the clock (see page 6).

Should you find that the readout display will not light up, appears incorrect or garbled, or that the control will not accept instructions, it could be for any of the following reasons:

- Electrical storm
- Momentary power interruption
- Momentary heavy load or power surge
- Drills, vacuum cleaners, welders, light dimmers on same circuit
- Static discharge to touch pads
- Extraneous signals: radio or TV transmitting equipment
- Other reasons

IF THE READOUT DISPLAY DOESN'T LIGHT UP OR DASH LINES APPEAR, PLEASE CHECK:

- Is the oven plugged securely into the proper power outlet?
- Is a fuse blown or circuit breaker open?
- If the condition remains unchanged, perform the 5 steps listed in the box on the next page.

IF THE TIME OF DAY READOUT IS ERASED OR DASH LINES APPEAR:

- Power to the oven has likely been interrupted momentarily. Press  before you set the clock as instructed on page 6.
- If the condition remains unchanged, perform the 5 steps listed in the box on the next page.

IF THE READOUT APPEARS WRONG:

- Did you remember to press  before programming the oven?
- Have you (or someone else) pressed the control pads after cooking is started? If the readout ever appears wrong, press  to see the readout of what the oven is doing right now.
- If the condition remains unchanged, perform the steps listed in the box on the next page.

IF THE TOUCHMATIC CONTROL WILL NOT ACCEPT YOUR INSTRUCTIONS:

- Did the Error Signal sound when you pressed  ? If so, check to see if the probe jack is securely inserted into the oven receptacle. (Review explanation, page 23.)
- Did the Error Signal sound when you pressed  ? If so, you are attempting to put  instructions into Program 2. (Review explanation, pages 37-38.)
- If the condition remains unchanged, perform the 5 steps listed in the box on the next page.

IF ANOTHER FEATURE DOESN'T APPEAR TO BE OPERATING CORRECTLY:

- Have you followed the use and care instructions exactly? Review them to be sure.
- Did you press  before programming the oven?
- Is the oven plugged into a properly grounded and polarized outlet as described in installation instructions (page 3)? Improper installation can result in erratic operation.
- If the condition remains unchanged, perform the 5 steps listed in the box on the next page.

IF MICROWAVE POWER WON'T COME ON:

- Did you push the **START** switch?
- Is the oven door securely closed?
- If the condition remains unchanged, perform the 5 steps listed in the box on the next page.

If condition remains unchanged, please perform the following steps:

1. Check to see if a fuse or circuit breaker is open.
2. Unplug the oven for 1 minute.
3. Reconnect the oven to the wall outlet. Dash lines should appear in the display.
4. Press  . The dash lines will disappear.
5. Reset the clock as explained on page 6.

YOUR OVEN MUST BE ON A GROUNDED, POLARIZED CIRCUIT.

IF THE OVEN LIGHT PULSES DIMMER, THEN BRIGHTER:

- Is the line voltage to your home low or lower than usual? (The power company in your area should be able to tell you if there is low voltage to your home.)

IF ROOM LIGHTS DIM OR PULSE DIMMER, THEN BRIGHTER WHEN THE OVEN IS IN USE:

- Is the microwave oven on a separate circuit? (Review installation instructions, page 3.)

IF THE TEMPERATURE PROBE APPEARS NOT TO FUNCTION CORRECTLY:

- Is the probe jack securely inserted into the receptacle?
- Is the food you're attempting to heat already hotter than the temperature you're programming?
- Is the food completely defrosted?

IF FOOD IS OVERCOOKED:

- Did you remember to program the correct Cooking Power Level? (Review instructions, page 13.)

IF FOOD IS UNDERCOOKED:

- Are there other energy-consuming appliances on the same circuit as the microwave oven? (Review installation instructions, page 3.)
- Is the line voltage to your home low or lower than usual? (The power company in your area should be able to tell you if there is low voltage to your home.)
- Did you remember to program the correct Cooking Power Level? (Review instructions, page 13.)

When Service is Required

Call nearest authorized service agency. (The dealer from whom you purchased your Radarange Oven can give you the name of your nearest authorized Service Center.) Help them give you prompt service by providing:

1. An accurate description of the trouble.
2. Complete model, manufacturing, and serial numbers.
3. Date of installation. (We also suggest you retain your Sales Receipt.)

Remember, repair by an unauthorized service person that results in subsequent failure will void the warranty promise.

Amana has a large network of Authorized Service Centers in the U.S. However, if you should have a service problem that is not resolved locally,

Write: Customer Relations Department
AMANA REFRIGERATION, INC.
Amana, Iowa 52204

Or Dial: (319) 622-5511 Monday through Friday (8 a.m.-5 p.m., Central Time Zone) and ask for Customer Relations.

